

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
**March
2009**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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Department of Water Resources
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The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during March 2009.

Statewide precipitation was about 80 percent of average for the water-year through March 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at http://cdec.water.ca.gov/snow_rain.html

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. Snow pack water content for March 2009 was about 85 percent of average compared to 100 percent at this time in 2008. This was about 85 percent of the April 1 average, the normal date of maximum accumulation. Runoff for March was 55 percent of average, the same as last year at this time. Cumulative unimpaired runoff for the 2008-09 water year for the Sacramento River Region was 7.1 maf, 63 percent of average.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of March 2009 was about 3.16 maf compared to 3.16 maf at this time in 2008. On March 31, 2009, end-of-month storage at Lake Oroville was about 1.98 maf, as compared to 1.68 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 597 taf, as compared with 917 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 581 taf, compared with about 571 taf at this time in 2008.

SWP water deliveries to date through March 2009 were about 256 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 468 taf.

Conditions in the Delta remained in "Excess" with restrictions due to fish concerns throughout the month of March. Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

On March 1, KCWA notified DWR that a turnout had washed into the aqueduct. Flooding occurred in the turnout compound near the pumps. Flooding also occurred in the right of way into the aqueduct about 100 feet down from the turnout at mile post 224.07. A check valve broke in half causing the 13 mile long 20 inch pipeline to Palomar Plant to dewater into the right of way. The water traveled downstream to lowest point and then entered the aqueduct. There was erosion near the intake structure and downstream but no panel damage was visible.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Feb 28	4994.24	16,000									
1	4994.46	16,168	168	5	0	0	0	1	6	91	
2	4995.01	16,592	424	5	0	0	0	1	6	220	
3	4995.66	17,102	510	5	0	0	0	1	6	263	
4	4995.82	17,228	126	5	0	0	0	1	6	70	
5	4995.98	17,356	128	5	0	0	0	1	6	71	
6	4996.12	17,468	112	5	0	0	0	1	6	62	
7	4996.24	17,564	96	5	0	0	0	1	6	54	
8	4996.36	17,661	97	5	0	0	0	1	6	55	
9	4996.48	17,758	97	5	0	0	0	1	6	55	
10	4996.59	17,847	89	5	0	0	0	1	6	51	
11	4996.69	17,928	81	5	0	0	0	1	6	47	
12	4996.80	18,018	90	5	0	0	0	1	6	51	
13	4996.91	18,108	90	5	0	0	0	2	7	52	
14	4997.04	18,215	107	5	0	0	0	2	7	61	
15	4997.17	18,322	107	5	0	0	0	2	7	61	
16	4997.48	18,579	257	5	0	0	0	2	7	137	
17	4997.81	18,854	275	5	0	0	0	2	7	146	
18	4998.06	19,065	211	5	0	0	0	2	7	113	
19	4998.31	19,276	211	5	0	0	0	2	7	113	
20	4998.62	19,541	265	5	0	0	0	2	7	141	
21	4998.94	19,816	275	5	0	0	0	2	7	146	
22	4999.19	20,033	217	5	0	0	0	2	7	116	
23	4999.37	20,190	157	5	0	0	0	2	7	86	
24	4999.55	20,348	158	5	0	0	0	2	7	87	
25	4999.74	20,515	167	5	0	0	0	2	7	91	
26	4999.93	20,683	168	5	0	0	0	2	7	92	
27	5000.13	20,868	185	5	0	0	0	2	7	100	
28	5000.34	21,054	186	5	0	0	0	2	7	101	
29	5000.62	21,305	251	5	0	0	0	2	7	134	
30	5000.82	21,485	180	5	0	0	0	2	7	98	
31	5001.00	21,647	162	5	0	0	0	2	7	89	
Total cfs-days				- - -	155	0	0	0	50	205	3,052
Total ac-ft				5,647	307	0	0	0	100	407	6,054

Table 2. Frenchman Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right				
Feb 28	5565.15	26,295								
1	5565.30	26,444	149	2	0	0	0	20	22	
2	5565.50	26,643	199	2	0	0	0	20	22	
3	5565.70	26,843	200	2	0	0	0	20	22	
4	5565.75	26,894	51	2	0	0	0	20	22	
5	5565.77	26,914	20	2	0	0	0	20	22	
6	5565.80	26,944	30	2	0	0	0	20	22	
7	5565.84	26,984	40	2	0	0	0	20	22	
8	5565.85	26,994	10	2	0	0	0	20	22	
9	5565.92	27,065	71	2	0	0	0	20	22	
10	5565.93	27,075	10	2	0	0	0	20	22	
11	5565.94	27,085	10	2	0	0	0	20	22	
12	5565.96	27,105	20	2	0	0	0	20	22	
13	5565.99	27,135	30	2	0	0	0	20	22	
14	5566.05	27,196	61	2	0	0	0	20	22	
15	5566.09	27,236	40	2	0	0	0	20	22	
16	5566.27	27,419	183	2	0	0	0	20	22	
17	5566.37	27,521	102	2	0	0	0	20	22	
18	5566.48	27,633	112	2	0	0	0	20	22	
19	5566.57	27,725	92	2	0	0	0	20	22	
20	5566.68	27,837	112	2	0	0	0	20	22	
21	5566.80	27,960	123	2	0	0	0	20	22	
22	5566.91	28,073	113	2	0	0	0	20	22	
23	5566.96	28,125	52	2	0	0	0	20	22	
24	5567.03	28,197	72	2	0	0	0	20	22	
25	5567.09	28,259	62	2	0	0	0	20	22	
26	5567.15	28,321	62	2	0	0	0	20	22	
27	5567.19	28,362	41	2	0	0	0	19	21	
28	5567.25	28,424	62	2	0	0	0	19	21	
29	5567.34	28,518	94	2	0	0	0	19	21	
30	5567.37	28,549	31	2	0	0	0	19	21	
31	5567.44	28,622	73	2	0	0	0	19	21	
Total cfs-days				---	62	0	0	615	677	
Total ac-ft				2,327	123	0	0	1,219	1,342	
1/ Last Chance Creek Water District.										

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract				
Feb 28	5761.91	40,565								
1	5762.05	40,938	373	10	0.2	0	0	6	16	
2	5762.33	41,691	753	10	0.2	0	0	6	16	
3	5762.58	42,370	679	10	0.2	0	0	6	16	
4	5762.65	42,562	192	10	0.2	0	0	6	16	
5	5762.70	42,699	137	10	0.2	0	0	6	16	
6	5762.75	42,809	110	10	0.2	0	0	6	16	
7	5762.79	42,918	109	10	0.2	0	0	6	16	
8	5762.81	43,001	83	10	0.2	0	0	6	16	
9	5762.86	43,139	138	10	0.2	0	0	6	16	
10	5762.89	43,222	83	10	0.2	0	0	6	16	
11	5762.90	43,249	27	10	0.2	0	0	6	16	
12	5762.93	43,332	83	10	0.2	0	0	6	16	
13	5762.94	43,360	28	10	0.2	0	0	6	16	
14	5762.95	43,388	28	10	0.2	0	0	5	15	
15	5762.97	43,443	55	10	0.2	0	0	5	15	
16	5763.05	43,665	222	10	0.2	0	0	5	15	
17	5763.11	43,832	167	10	0.2	0	0	5	15	
18	5763.19	44,055	223	10	0.2	0	0	5	15	
19	5763.28	44,307	252	10	0.2	0	0	5	15	
20	5763.38	44,588	281	10	0.2	0	0	5	15	
21	5763.51	44,955	367	10	0.2	0	0	5	15	
22	5763.61	45,238	283	10	0.2	0	0	5	15	
23	5763.66	45,380	142	10	0.2	0	0	5	15	
24	5763.68	45,437	57	10	0.2	0	0	5	15	
25	5763.73	45,580	143	10	0.2	0	0	5	15	
26	5763.78	45,723	143	10	0.2	0	0	5	15	
27	5763.84	45,894	171	10	0.2	0	0	5	15	
28	5763.95	46,210	316	10	0.2	0	0	5	15	
29	5764.05	46,498	288	10	0.2	0	0	5	15	
30	5764.11	46,671	173	10	0.2	0	0	5	15	
31	5764.19	46,903	232	10	0.2	0	0	5	15	
Total cfs-days				---	304	6	0	0	168	
Total ac-ft				6,338	603	12	0	0	334	
									949	
									7,287	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Feb 28	713.49	1,360,493										
	1	716.49	1,384,833	24,340	1,301	0	1	0	9	0	1,311	0
	2	725.75	1,461,851	77,018	348	0	0	0	9	0	357	0
	3	733.81	1,531,260	69,409	2,028	0	0	0	9	0	2,037	0
	4	738.65	1,574,014	42,754	1,208	0	0	0	10	0	1,218	0
	5	741.89	1,603,098	29,084	1,176	0	0	0	63	0	1,239	0
	6	744.33	1,625,249	22,151	1,354	0	0	0	49	0	1,403	0
	7	746.36	1,643,841	18,592	1,675	0	0	0	44	0	1,719	0
	8	748.03	1,659,248	15,407	1,644	0	0	0	30	0	1,674	0
	9	749.56	1,673,453	14,205	1,624	0	0	0	65	0	1,689	0
	10	750.86	1,685,590	12,137	1,745	0	0	0	86	0	1,831	0
	11	752.05	1,696,754	11,164	1,766	0	0	0	66	0	1,832	0
	12	753.20	1,707,593	10,839	1,332	0	0	0	76	0	1,408	0
	13	754.26	1,717,627	10,034	1,292	0	0	0	87	0	1,379	0
	14	755.33	1,727,799	10,172	1,112	0	0	0	82	0	1,194	0
	15	756.56	1,739,543	11,744	0	0	0	0	52	0	52	0
	16	758.17	1,755,002	15,459	724	0	0	0	16	0	740	0
	17	759.91	1,771,819	16,817	2,052	0	0	0	26	0	2,078	0
	18	761.40	1,786,292	14,473	3,575	0	0	0	63	0	3,638	0
	19	763.07	1,802,617	16,325	0	0	0	0	100	0	100	0
	20	764.68	1,818,456	15,839	0	0	0	0	85	0	85	0
	21	766.37	1,835,191	16,735	0	0	0	0	80	0	80	0
	22	768.16	1,853,037	17,846	0	0	0	0	43	0	43	0
	23	769.66	1,868,087	15,050	0	0	0	0	60	0	60	0
	24	771.00	1,881,609	13,522	0	0	0	0	104	0	104	0
	25	772.28	1,894,586	12,977	0	0	0	0	120	0	120	0
	26	773.57	1,907,731	13,145	0	2	0	0	88	0	90	0
	27	774.91	1,921,456	13,725	0	4	0	0	149	0	153	0
	28	776.34	1,936,181	14,725	0	4	0	0	156	0	160	0
	29	777.80	1,951,299	15,118	49	4	0	0	123	0	176	0
	30	779.11	1,964,936	13,637	488	4	0	1	163	0	656	0
	31	780.33	1,977,699	12,763	602	4	0	1	158	0	765	0
Total				617,206	27,095	24	1	2	2,271	0	29,393	0
646,599												

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

March 2009

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Feb 28	22,684										
1	23,510	826	1,301	478	0	786	0	3	1,260	0	1,096
2	23,412	-98	348	480	0	652	0	3	1,283	0	1,012
3	24,176	764	2,028	476	0	494	0	3	1,285	0	42
4	23,690	-486	1,208	466	0	1,334	0	3	1,263	0	440
5	23,867	177	1,176	466	0	670	0	3	1,263	0	471
6	23,624	-243	1,354	466	0	1,158	0	3	1,263	0	361
7	23,783	159	1,675	466	0	1,094	0	3	1,263	0	378
8	23,922	139	1,644	446	0	1,064	0	3	1,263	0	379
9	23,906	-16	1,624	466	0	1,367	0	3	1,265	0	529
10	23,825	-81	1,745	466	0	1,454	0	3	1,263	0	428
11	24,043	218	1,766	465	0	269	0	3	1,263	0	-478
12	24,222	179	1,332	465	0	118	0	3	1,265	0	-232
13	24,501	279	1,292	465	0	60	0	3	1,265	0	-150
14	24,692	191	1,112	465	76	60	0	3	1,265	0	-134
15	23,751	-941	0	465	0	660	0	3	1,277	0	534
16	24,196	445	724	465	1,176	992	0	3	1,269	0	344
17	24,917	721	2,052	429	0	968	0	3	1,275	0	486
18	26,074	1,157	3,575	350	0	1,840	0	3	1,303	0	378
19	25,114	-960	0	487	0	568	0	3	1,273	0	397
20	25,161	47	0	477	1,022	89	0	3	1,269	0	-91
21	24,842	-319	0	249	839	89	0	3	1,263	0	-52
22	23,793	-1,049	0	334	0	89	0	3	1,267	0	-24
23	23,813	20	0	478	1,003	87	0	3	1,265	0	-106
24	23,381	-432	0	462	583	87	0	4	1,265	0	-121
25	23,519	138	0	463	1,123	604	0	4	1,265	0	425
26	23,676	157	0	464	1,123	472	0	4	1,258	0	304
27	23,565	-111	0	464	862	395	0	4	1,244	0	206
28	23,424	-141	0	467	843	492	0	4	1,244	0	289
29	23,331	-93	49	479	835	0	0	4	1,244	0	-208
30	22,818	-513	488	480	0	92	0	4	1,242	0	-143
31	22,433	-385	602	480	0	92	0	4	1,252	0	-119
Total		-251	27,095	14,029	9,485	18,196	0	101	39,204	0	6,641

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Feb 28	133.25	43,797										
1	133.28	43,912	115	786	0	0	0	0	664	0	-7	1,924
2	133.23	43,720	-192	652	0	0	0	0	512	0	-332	1,795
3	133.37	44,259	539	494	0	0	0	0	351	0	396	1,636
4	133.47	44,646	387	1,334	0	0	0	0	351	0	-596	1,614
5	133.43	44,491	-155	670	0	0	0	0	353	0	-472	1,616
6	133.51	44,801	310	1,158	0	0	0	0	351	0	-497	1,614
7	133.61	45,189	388	1,094	0	0	0	0	353	0	-353	1,616
8	133.55	44,956	-233	1,064	0	0	0	0	357	0	-940	1,620
9	133.75	45,736	780	1,367	0	0	0	0	351	0	-236	1,616
10	133.88	46,247	511	1,454	0	0	0	0	357	0	-586	1,620
11	133.96	46,562	315	269	0	0	0	0	359	0	405	1,622
12	133.92	46,405	-157	118	0	0	0	0	359	0	84	1,624
13	133.84	46,090	-315	60	0	0	0	0	359	0	-16	1,624
14	133.83	46,050	-40	60	0	0	0	0	355	76	331	1,620
15	133.70	45,541	-509	660	0	0	0	0	351	0	-818	1,628
16	133.44	44,529	-1,012	992	0	0	0	0	351	1,176	-477	1,620
17	133.44	44,529	0	968	0	0	0	0	351	0	-617	1,626
18	133.73	45,658	1,129	1,840	0	0	0	0	351	0	-360	1,654
19	133.64	45,306	-352	568	0	0	0	0	351	0	-569	1,624
20	133.31	44,028	-1,278	89	0	0	0	0	351	1,022	6	1,620
21	133.06	43,070	-958	89	0	0	0	0	347	839	139	1,610
22	132.93	42,576	-494	89	0	0	0	0	347	0	-236	1,614
23	132.60	41,334	-1,242	87	0	0	0	0	345	1,003	19	1,610
24	132.38	40,516	-818	87	0	0	0	0	343	583	21	1,608
25	132.02	39,193	-1,323	604	0	0	0	0	339	1,123	-465	1,604
26	131.66	37,890	-1,303	472	0	0	0	0	341	1,123	-311	1,599
27	131.38	36,891	-999	395	0	0	0	0	349	862	-183	1,593
28	130.99	35,521	-1,370	492	0	0	0	0	359	843	-660	1,603
29	130.66	34,380	-1,141	0	0	0	0	0	351	835	45	1,595
30	130.56	34,038	-342	92	0	0	0	0	353	0	-81	1,595
31	130.46	33,697	-341	92	0	0	0	0	367	0	-66	1,619
Total		-10,100		18,196	0	0	0	0	11,379	9,485	-7,432	50,583

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

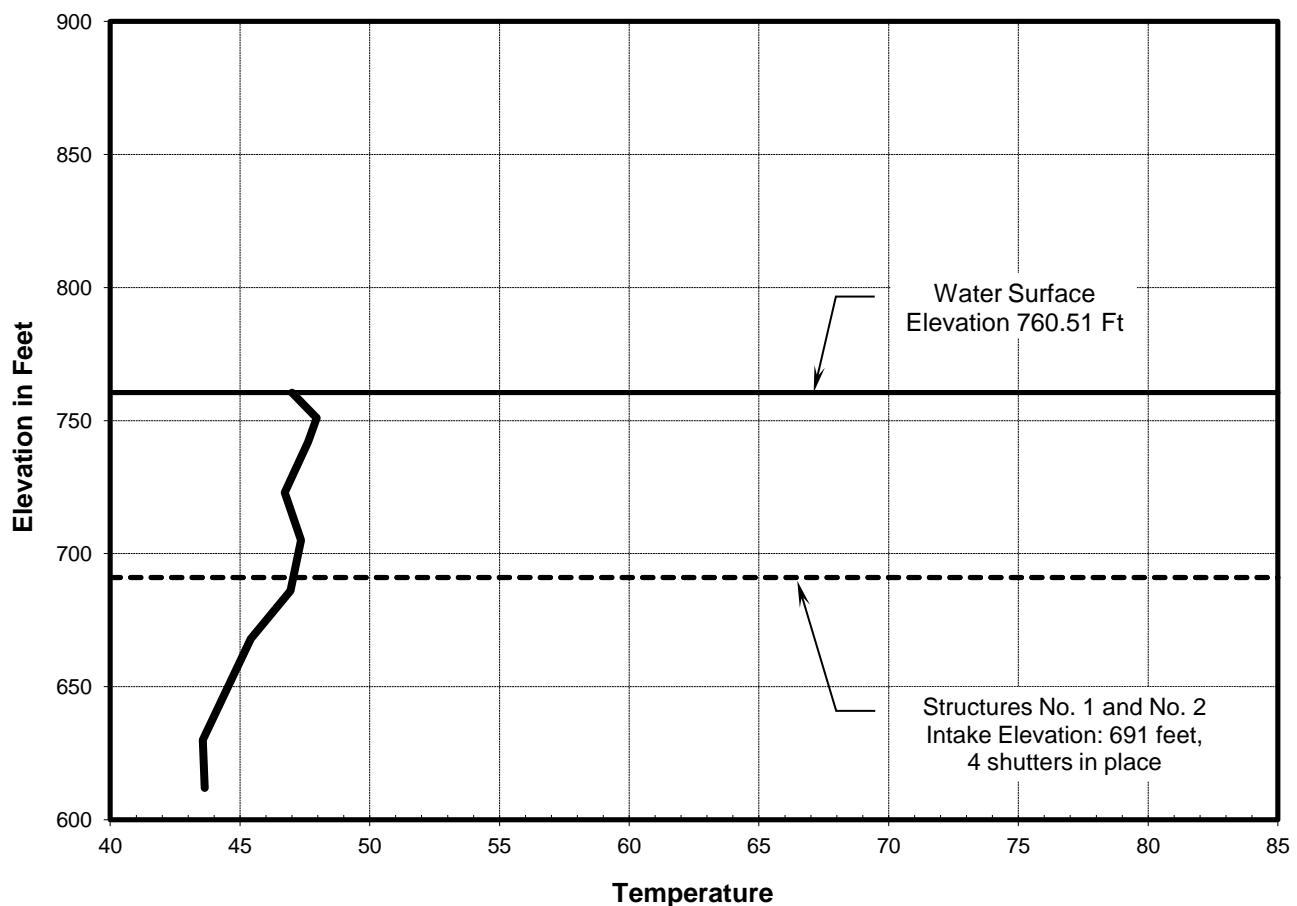
Water Temperature Data

(in degrees Fahrenheit)

March 2009

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	53	47
2	53	45
3	52	45
4	52	46
5	53	46
6	53	46
7	53	46
8	53	46
9	53	46
10	53	45
11	53	45
12	53	45
13	53	46
14	53	45
15	53	45
16	54	46
17	54	46
18	55	47
19	55	48
20	55	48
21	54	48
22	56	49
23	55	49
24	56	50
25	57	50
26	58	51
27	59	51
28	59	52
29	58	53
30	56	53
31	56	53

**Lake Oroville Temperature Profile
on March 18, 2009**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.			Table A	Permit	Article 56C	Water Quality	
	No.	Structure	Mile							
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	95					
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis AFB	0					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0					
				Solano County Water Agency Fairfield / Vacaville 42"	0					
			17.00	Solano County Water Agency Central Solano	Stub					
3A	2	Cordelia Forebay	21.23							
		Cordelia Pumping Plant & Cordelia Spillway	21.30		97					
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	0					
				Solano County Water Agency Benicia	0					
3B	2	Cordelia Surge Tank	23.33						97	
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	0					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	0					
			27.60	Napa County Flood Control & WCD American Canyon 1	0					

Table 9. Delta Field Division Plant Data

(in acre-feet)

March 2009

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	0	0	6,854	6,854	168	0	0	0
2	0	0	5,967	5,967	158	0	0	0
3	0	9	5,998	5,998	130	0	0	0
4	0	0	4,938	4,938	190	0	0	0
5	0	6	4,373	4,373	191	0	0	0
6	0	8	4,372	4,372	214	0	0	0
7	0	4	4,367	4,367	216	0	0	0
8	0	0	5,664	5,664	210	0	0	0
9	0	0	4,378	4,378	219	0	0	0
10	0	1	4,376	4,376	214	0	0	15
11	0	0	5,833	5,833	194	0	0	3
12	0	0	5,747	5,747	167	0	0	0
13	0	0	6,766	6,766	220	0	0	0
14	0	0	6,915	6,915	223	0	0	0
15	0	0	6,885	6,885	222	0	0	0
16	29	8	6,249	6,249	202	0	0	0
17	10	10	7,011	7,011	206	0	0	0
18	6	4	7,072	7,072	218	0	0	0
19	0	2	6,979	6,979	259	0	0	0
20	8	9	5,999	5,999	298	0	0	0
21	2	2	6,979	6,979	260	0	0	0
22	8	7	6,979	6,979	258	0	0	0
23	3	1	5,040	5,040	273	0	0	0
24	5	7	4,870	4,870	252	0	0	14
25	2	1	4,923	4,923	219	0	0	69
26	5	6	4,400	4,400	180	0	0	104
27	2	0	4,423	4,423	26	0	0	223
28	0	0	3,661	3,661	134	0	0	164
29	0	0	5,017	5,017	230	0	0	62
30	10	12	5,017	5,017	282	0	0	0
31	5	0	4,364	4,364	311	0	0	0
Total	95	97	172,415	172,415	6,544	0	0	654

Table 10. Clifton Court Forebay

Daily Operation of Gates

March 2009

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1		6:30	9:30	15:30	18:30	22:15			6,726
2	0:01	7:00	10:00	16:30	19:30	23:29			5,945
3	0:01	8:00	10:45	17:30	20:30	22:25			5,934
4	0:01	9:00	12:11	19:00	22:00				4,551
5		10:30	13:00	20:00	23:00				4,459
6		12:00	14:15	20:25					4,458
7	0:15	13:00	15:30	19:20					4,453
8	1:00	22:45							4,612
9	1:45	16:00	18:30						4,936
10		0:30	3:30	16:45	19:15				4,934
11		1:00	4:00	17:30	20:15	22:10			5,941
12	4:45	14:15	17:15						5,940
13		6:15	9:15	15:00	18:00				6,787
14		7:00	9:45	15:45	18:45				6,572
15		7:30	10:15	16:30	19:30				6,562
16		8:15	11:00	17:30	20:30				6,529
17		9:15	11:45	18:30	21:30				6,925
18		10:30	12:30	19:45	22:45	23:35			6,921
19	0:01	12:00	13:45	19:45					6,936
20	0:01	13:15	15:00	19:10					6,936
21	0:45	14:00	16:00	20:52					6,937
22	1:30	14:45	17:20	19:25					6,936
23	2:15	15:30	17:45	20:25					4,941
24	2:45	16:00							4,953
25	3:15	15:13							4,475
26	0:01	0:45	3:45	13:15	16:15	18:16			4,476
27	0:01	5:15	8:00	13:45	16:45	19:47			4,460
28	0:01	14:30							4,462
29	0:01	14:30							4,953
30	0:01	6:15	9:00	15:15	18:15	19:20			4,944
31	0:01	7:15	10:58	15:10					4,469
Total inflow for the month in AF:									173,063

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	General Conveyance	Article 56C	Local Other		
	No.	Structure										
1A			1.83	Byron-Bethany I.D.	569					569		
1	1	Banks Pumping Plant	3.32		172,415	47	47	47	47	47		
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	6,544							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	47							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2A	8		42.46	Oak Flat Water District-A	16	67	67	67	67	67		
			42.9	Western Hills WD	67							
			43.81	Oak Flat Water District-B	0							
			44.64	Oak Flat Water District-C	14							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	9	9	9	9	9	9		
				Oak Flat Totals:	39							
	10	Check No. 9	51.3									
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	3							
		Check No. 12	66.71		163,966							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Local	Article 56C	Semitropic Recovery	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	6,544	4	675				
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	4						
		Check No. 1	3.91								
	2	Check No. 2	5.21			3	4				
			7.21	Zone 7 Water Agency Altamont	0						
		Check No. 3	9.49	Zone 7 Water Agency Patterson Storage Exchange Project Water	675 0						
2	4	Check No. 4	10.68			4	675				
		Check No. 5	12.29								
	6		13.55	Zone 7 Water Agency Wente #1	3	3	4				
			14.16	Zone 7 Water Agency Wente #2	4						
			14.31	Zone 7 Water Agency Ising	0						
		Check No. 6	14.65								
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	0	4	675				
		Check No. 7	16.38								
	8		16.57	Zone 7 Water Agency Wente #3	0	4	675				
			16.63	Zone 7 Water Agency Wente #4	4						
			16.69	Zone 7 Water Agency Norman Nursery	0						
			16.70	Zone 7 Water Agency Concannon Project Water	0						
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0						
				Pumped into South Bay Aqueduct	0						
				Gravity into South Bay Aqueduct	654						
		Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	0	192	675				
				Storage Exchange Inflow Release	192						
				East Bay Regional Park Dist. Del Valle Recreation	6						
				Zone 7 Water Agency Wente #5	13						
6			19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	607 604	13	607	604			
				Zone 7 - Kalthrof Detjens	3						
7		La Costa Tunnel	22.50	ACWD - Vallecitos Project Water	0	3	637	924			
				City of San Francisco San Antonio	0						
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water Storage Exchange	924 637	637	1,785	1,733			
				S.C.V.W.D. Meter	3,518						
9											

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

March 2009

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Feb 28	693.41	33,488									
1	693.48	33,533	44	46	0	0	0	1	1	2	0.02
2	693.79	33,729	196	198	0	0	0	1	1	2	0.39
3	695.32	34,708	980	981	0	0	0	1	1	2	0.70
4	698.83	37,032	2,323	2,326	0	0	0	1	1	2	1.55
5	699.81	37,697	665	668	0	0	0	1	2	3	0.07
6	700.40	38,102	404	408	0	0	0	1	3	4	0.04
7	700.76	38,349	248	250	0	0	0	0	2	2	0.00
8	700.96	38,488	138	142	0	0	0	0	4	4	0.00
9	701.14	38,612	125	129	0	0	0	0	4	4	0.00
10	701.25	38,688	76	96	0	0	15	0	5	20	0.00
11	701.34	38,751	62	70	0	0	3	0	5	8	0.00
12	701.44	38,820	69	74	0	0	0	0	4	4	0.00
13	701.52	38,876	56	61	0	0	0	0	5	5	0.00
14	701.55	38,897	21	25	0	0	0	0	4	4	0.00
15	701.61	38,939	42	45	0	0	0	0	3	3	0.00
16	701.67	38,980	42	47	0	0	0	0	5	5	0.00
17	701.72	39,015	35	39	0	0	0	0	4	4	0.00
18	701.76	39,043	28	33	0	0	0	0	5	5	0.00
19	701.80	39,071	28	32	0	0	0	0	4	4	0.00
20	701.84	39,099	28	35	0	0	0	0	7	7	0.00
21	701.88	39,127	28	34	0	0	0	0	6	6	0.00
22	701.96	39,183	56	59	0	0	0	0	3	3	0.48
23	702.03	39,232	49	55	0	0	0	0	6	6	0.02
24	702.06	39,253	21	41	0	0	14	0	6	20	0.00
25	702.00	39,211	-42	33	0	0	69	0	6	75	0.00
26	701.88	39,127	-84	25	0	0	104	0	5	109	0.00
27	701.60	38,932	-195	33	0	0	223	0	6	229	0.00
28	701.39	38,786	-146	27	0	0	164	0	9	173	0.00
29	701.32	38,737	-49	23	0	0	62	0	10	72	0.00
30	701.36	38,765	28	37	0	0	0	0	9	9	0.00
31	701.33	38,744	-21	-12	0	0	0	0	9	9	0.00
Total		5,256	6,062	0	0	654	6	146	806	3.27	

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

March 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Feb 28	222.83	50,593											
1	221.96	48,282	-2,311	0	2,626	0	3,415	0	5,499	1,343	2	-362	
2	222.03	48,464	182	0	2,358	0	2,713	0	4,704	235	2	-38	
3	221.91	48,150	-314	0	2,173	0	2,795	0	4,733	409	2	18	
4	221.53	47,152	-998	0	2,080	0	2,645	0	4,708	409	2	-109	
5	220.83	45,315	-1,837	0	1,515	0	2,116	0	3,617	566	2	-372	
6	220.93	45,577	262	0	1,031	0	2,104	0	2,739	590	2	328	
7	219.38	41,554	-4,023	0	886	0	2,005	0	3,768	878	2	-271	
8	219.39	41,579	25	0	825	0	2,688	0	2,541	975	2	18	
9	219.98	43,100	1,521	0	756	0	2,444	0	2,213	418	2	200	
10	219.90	42,893	-207	0	1,272	0	1,934	0	2,727	417	2	-164	
11	220.73	45,054	2,161	0	1,749	0	2,326	0	2,210	678	2	-96	
12	221.04	45,865	811	0	2,201	0	3,080	0	3,754	857	2	-259	
13	221.02	45,813	-52	0	2,618	0	3,078	0	4,274	1,134	3	-311	
14	221.60	47,336	1,523	0	2,571	0	3,410	0	4,274	816	3	-120	
15	220.53	44,531	-2,805	0	2,903	0	3,548	0	6,323	1,468	3	-71	
16	221.02	45,813	1,282	0	2,843	0	2,981	0	4,240	776	3	-159	
17	220.70	44,975	-838	0	2,803	0	3,005	0	5,331	798	3	-98	
18	220.03	43,230	-1,745	0	2,683	0	3,375	0	5,543	1,225	3	-167	
19	221.66	47,493	4,263	0	2,405	0	3,835	0	2,854	814	4	-419	
20	221.22	46,337	-1,156	0	1,763	0	3,049	0	4,042	1,528	4	179	
21	220.36	44,088	-2,249	0	1,223	0	3,284	0	4,050	1,324	4	-263	
22	218.56	39,473	-4,615	0	991	0	3,448	0	4,844	2,065	4	147	
23	219.34	41,451	1,978	0	1,526	0	2,134	0	1,737	801	4	-121	
24	219.12	40,889	-562	0	965	155	2,022	0	2,157	1,115	4	-149	
25	219.02	40,635	-254	0	522	1,085	2,362	0	1,714	2,340	4	-39	
26	219.39	41,579	944	0	486	0	2,347	0	587	1,721	7	-42	
27	220.26	43,827	2,248	0	509	0	2,484	0	0	1,765	7	-88	
28	220.53	44,531	704	0	474	0	1,710	0	0	1,737	7	-85	
29	219.74	42,480	-2,051	0	1,112	0	2,011	0	355	4,029	7	234	
30	219.65	42,248	-232	0	1,588	0	2,185	0	1,813	2,243	7	173	
31	219.38	41,554	-694	0	1,833	0	2,243	0	1,789	2,133	7	-497	
Total				-9,039	0	51,290	1,240	82,776	0	99,140	37,607	112	-3,003
Mean cfs				---	0	1,655	40	2,670	0	3,198	1,213	4	-97
Acre-feet				-9,039	0	101,660	2,459	163,966	0	196,436	74,516	222	-5,950

1/ Pump-in located at Mile 79.67R.

2/ Includes 1 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., 1 Af to the Cattle Program, and 219 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

March 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet) 1/	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 2/	Parks and Rec. Del.		
Feb 28	434.29	820,771							
1	435.39	831,094	10,323	5,499	0	0	0	-295	
2	436.35	840,139	9,045	4,704	0	0	0	-144	
3	437.34	849,501	9,362	4,733	0	0	0	-13	
4	438.33	858,899	9,398	4,708	0	0	0	30	
5	439.08	866,041	7,142	3,617	0	0	0	-16	
6	439.64	871,388	5,347	2,739	0	0	0	-43	
7	440.34	878,086	6,698	3,768	0	0	0	-391	
8	440.86	883,073	4,987	2,541	0	0	0	-27	
9	441.29	887,205	4,132	2,213	0	0	0	-130	
10	441.81	892,209	5,004	2,727	0	0	0	-204	
11	442.25	896,451	4,242	2,210	0	0	0	-71	
12	442.97	903,407	6,956	3,754	0	0	0	-247	
13	443.71	910,576	7,169	4,274	0	0	0	-660	
14	444.60	919,222	8,646	4,274	0	0	0	85	
15	445.85	931,413	12,191	6,323	0	0	0	-177	
16	446.63	939,047	7,634	4,240	0	0	0	-391	
17	447.65	949,062	10,015	5,331	0	0	0	-282	
18	448.75	959,901	10,839	5,543	0	0	0	-78	
19	449.33	965,633	5,732	2,854	0	0	0	36	
20	450.12	973,459	7,826	4,042	0	0	0	-96	
21	450.86	980,809	7,350	4,050	0	0	0	-344	
22	451.81	990,271	9,462	4,844	0	0	0	-74	
23	452.14	993,565	3,294	1,737	0	0	0	-76	
24	452.52	997,363	3,798	2,157	155	0	0	-87	
25	452.70	999,163	1,800	1,714	1,085	0	0	278	
26	452.77	999,864	701	587	0	0	0	-234	
27	452.77	999,864	0	0	0	0	0	0	
28	452.77	999,864	0	0	0	0	0	0	
29	452.78	999,964	100	355	0	0	0	-305	
30	453.07	1,002,868	2,904	1,813	0	0	0	-349	
31	453.41	1,006,276	3,408	1,789	0	0	1	-70	
Total			185,505	99,140	1,240	0	1	-4,375	
Mean cfs			---	3,198	40	0	0	-141	
Acre-feet			185,505	196,436	2,459	0	1	-8,471	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 0 AF, Casa De Fruta 0 AF, and San Benito 0 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

March 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	2,663	1,849	0	0	10,907	7,910	0
2	466	-366	0	0	9,331	4,907	0
3	812	18	0	0	9,388	4,951	0
4	812	14	0	0	9,339	4,905	0
5	1,123	294	0	0	7,175	4,953	0
6	1,171	340	0	0	5,432	5,432	0
7	1,741	992	0	0	7,473	4,469	0
8	1,853	1,172	0	0	4,829	2,654	0
9	829	43	0	0	4,390	3,196	0
10	828	47	0	0	5,409	4,222	0
11	1,344	531	0	0	4,384	4,384	0
12	1,699	885	0	0	7,446	5,220	0
13	2,250	1,425	0	0	8,477	4,073	0
14	1,619	826	0	0	8,477	4,094	0
15	2,912	2,119	0	0	12,542	5,955	0
16	1,539	732	0	0	8,411	4,059	0
17	1,583	751	0	0	10,575	3,979	0
18	2,430	1,628	0	0	10,994	6,685	0
19	1,615	795	0	0	5,660	3,443	0
20	3,031	2,205	0	0	8,017	6,852	0
21	2,626	1,813	0	0	8,033	4,792	0
22	4,095	3,301	0	0	9,608	6,444	0
23	1,589	785	0	0	3,446	2,324	0
24	2,211	1,405	307	307	4,278	4,278	0
25	4,642	3,055	2,152	2,152	3,399	3,399	0
26	3,414	2,071	0	0	1,165	1,165	0
27	3,501	1,918	0	0	0	0	0
28	3,446	1,861	0	0	0	0	0
29	7,992	5,339	0	0	705	705	0
30	4,449	1,919	0	0	3,597	3,597	0
31	4,231	1,737	0	0	3,549	3,549	0
Total	74,516	41,504	2,459	2,459	196,436	126,596	0

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

March 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Feb 28	323.91	18,793					
1	323.92	18,798	5	3	0	0	-1
2	323.95	18,811	13	7	0	0	-1
3	323.96	18,815	4	2	0	0	0
4	324.53	19,071	256	129	0	0	0
5	324.82	19,202	131	66	0	0	0
6	324.98	19,275	73	37	0	0	0
7	325.08	19,320	45	23	0	0	-1
8	325.16	19,356	36	19	0	0	-2
9	325.20	19,374	18	9	0	0	0
10	325.24	19,393	19	10	0	0	-1
11	325.28	19,411	18	9	0	0	0
12	325.31	19,425	14	7	0	0	0
13	325.34	19,438	13	7	0	0	-1
14	325.35	19,443	5	3	0	0	-1
15	325.37	19,452	9	5	0	0	-1
16	325.39	19,461	9	5	0	0	-1
17	325.41	19,470	9	5	0	0	-1
18	325.43	19,479	9	5	0	0	-1
19	325.44	19,484	5	3	0	0	-1
20	325.45	19,488	4	2	0	0	0
21	325.44	19,484	-4	0	0	0	-4
22	325.43	19,479	-5	0	0	0	-5
23	325.44	19,484	5	3	0	0	-1
24	325.46	19,493	9	5	0	0	-1
25	325.48	19,502	9	5	0	0	-1
26	325.49	19,507	5	3	0	0	-1
27	325.49	19,507	0	0	0	0	0
28	325.50	19,511	4	2	0	0	0
29	325.46	19,493	-18	0	0	0	-18
30	325.45	19,488	-5	0	0	0	-5
31	325.46	19,493	5	3	0	0	-1
Total			700	377	0	0	-48
Mean cfs			---	12	0	0	---
Acre-feet			700	748	0	0	-48

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

March 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Feb 28	600.50	709					
1	600.50	709	0	0	0	0	0
2	600.50	709	0	0	0	0	0
3	600.50	709	0	0	0	0	0
4	600.50	709	0	0	0	0	0
5	600.50	709	0	0	0	0	0
6	600.50	709	0	0	0	0	0
7	600.50	709	0	0	0	0	0
8	600.50	709	0	0	0	0	0
9	600.50	709	0	0	0	0	0
10	600.50	709	0	0	0	0	0
11	600.50	709	0	0	0	0	0
12	600.50	709	0	0	0	0	0
13	600.50	709	0	0	0	0	0
14	600.50	709	0	0	0	0	0
15	600.50	709	0	0	0	0	0
16	600.50	709	0	0	0	0	0
17	600.50	709	0	0	0	0	0
18	600.50	709	0	0	0	0	0
19	600.50	709	0	0	0	0	0
20	600.50	709	0	0	0	0	0
21	600.50	709	0	0	0	0	0
22	600.50	709	0	0	0	0	0
23	600.50	709	0	0	0	0	0
24	600.50	709	0	0	0	0	0
25	600.50	709	0	0	0	0	0
26	600.50	709	0	0	0	0	0
27	600.50	709	0	0	0	0	0
28	600.50	709	0	0	0	0	0
29	600.50	709	0	0	0	0	0
30	600.50	709	0	0	0	0	0
31	600.50	709	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		163,966						
3A	3A	San Luis Reservoir		Department of Parks and Recreation	1			1	0		
				San Felipe Division Santa Clara Water District	0						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	0						
				Reach 3A Subtotal:	1		0	1	0		
				Department of Parks and Recreation	1			1	0		
3	3	O'Neill Forebay	70.85	Cattle Program	1			1	0		
				Department of Fish & Game	1						
				70.91			219				
			Thru 85.08	San Luis Water District	219						
				(Floodwater Inflow)	0						
				Reach 3 Subtotal:	222	219	0	3	0		
			86.73		74,516						
4	4	14	89.03			3,343					
			Thru 94.06	San Luis Water District	3,343						
			89.66				805				
			Thru 89.67	Pacheco Water District	805						
			89.68	Panoche Water District	44		44				
			89.70	City of Dos Palos	59	59					
			Check No. 14	95.06							
			98.15				323				
			Thru 104.20	San Luis Water District	323						
5	5	15	96.15			1,516					
			Thru 102.64	Panoche Water District	1,516						
			(Floodwater Inflow)		0						
			102.64	Broadview Water District	0						
			105.22				2,398				
			Thru 108.64	Westlands Water District	2,398						
			Check No.15	108.50							
				Reach 4 Subtotal:	8,488		8,488	0	0		
				San Felipe Division Total:	0		0	0	0		
				Pacheco Water District Total:	805		805	0	0		
				Broadview Water District Total:	0		0	0	0		
				City of Dos Palos Total:	59		59	0	0		
				SLWD Reach 4 Subtotal:	3,666		3,666	0	0		
				Panoche Water District Total:	1,560		1,560	0	0		
				SLWD Total:	3,885		3,885	0	0		
				Westlands WD Reach 4 Subtotal:	2,398		2,398	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure	Mile									
5	16			(Reverse flow, Kings River)	0	3,746		3	2			
				110.52	Westlands Water District	3,746						
				Thru	Dept. of Fish and Game @ Lat. 4L	5						
				122.05	Dept. of Fish and Game @ Lat. 6L	0						
					Dept. of Fish and Game @ Lat. 7L	18						
			Check No. 16	122.07			1,426	10	8			
	17			124.18	Westlands Water District	1,426						
				Thru 132.74								
	Check No. 17			132.95								
	18			133.81	Westlands Water District	2,946	2,946					
				Thru 142.61								
				Pleasant Valley Pumping Plant	Westlands Water District	2,748						
				143.16	City of Coalinga	327						
			Check No. 18	143.23								
					Reach 5 Subtotal:	11,216	11,193	0	13	10		
6	19			GWF Energy	0	28	28					
				City of Huron	28							
				145.26	SWP Construction @ Lat. 24R	0						
				Thru 151.19	Kings County to Lemoore NAS Through WWD	0						
					Kings County through WWD 30L	0						
					Westlands Water District	3,780						
			Check No. 19	155.64								
					Reach 6 Subtotal:	3,808	3,808	0	0	0		
7	20			156.34	City of Huron	74	74					
				156.40	SWP Construction @ Lat. 24R	0						
				Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0						
				163.69	Westlands Water District	2,891						
			Check No. 20	164.69								
	21			164.79	City of Avenal	165	165					
				167.04	Westlands Water District	747						
				Thru 171.67								
			Check No. 21	172.40		42,613						
					Reach 7 Total:	3,877	3,877	0	0	0		
					SWP Construction Total:	0	0	0	0	0		
					Westlands WD Total:	20,682	20,682	0	0	0		
					City of Coalinga Total:	327	327	0	0	0		
					City of Huron Total:	102	102	0	0	0		
					Kings County to Lemoore NAS Through WWD	0	0	0	0	0		
					City of Avenal Total:	165	165	0	0	0		
Total San Luis Field Division Deliveries:						27,612	27,585	0	16	11		

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
March 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Feb 29	26,983								
1	27,989	1,006	0	1,343	34	18	233	525	-26
2	27,446	-543	0	235	34	18	233	384	160
3	27,503	57	0	409	34	18	233	152	57
4	27,063	-440	0	409	34	18	233	386	40
5	26,987	-76	0	566	53	18	210	302	-21
6	26,890	-97	0	590	53	22	210	337	-17
7	27,175	285	0	878	53	22	210	503	53
8	27,995	820	0	934	53	22	210	261	25
9	27,621	-374	0	418	53	22	210	357	36
10	27,046	-575	0	417	53	22	210	331	-91
11	26,673	-373	0	678	53	22	210	440	-141
12	26,673	0	0	857	64	22	351	426	6
13	27,212	539	0	1,134	64	29	351	337	-81
14	27,259	47	0	816	64	29	351	295	-53
15	27,232	-27	0	1,468	64	29	351	1,057	19
16	27,078	-154	0	776	64	29	351	322	-87
17	26,989	-89	0	798	64	29	351	192	-207
18	26,928	-61	0	1,225	64	29	351	594	-217
19	26,516	-412	0	814	98	29	398	338	-159
20	26,743	227	0	1,528	98	29	398	775	-114
21	26,836	93	0	1,324	98	29	397	682	-71
22	27,861	1,025	0	2,065	98	29	396	1,097	72
23	27,230	-631	0	801	98	29	396	749	153
24	26,784	-446	0	1,115	98	31	396	745	-70
25	27,204	420	0	2,340	98	31	396	1,354	-249
26	27,265	61	0	1,721	106	31	517	929	-108
27	27,607	342	0	1,765	106	26	517	718	-225
28	26,771	-836	0	1,737	106	26	517	1,391	-119
29	27,970	1,199	0	4,029	106	26	517	2,522	-253
30	28,235	265	0	2,243	109	26	517	1,522	64
31	28,579	344	0	2,133	110	26	517	1,462	155
Total	1,596	0	37,566	2,284	786	10,738	21,484	-1,469	
Mean cfs	---	0	1,212	74	25	346	693	-47	
Acre-feet	1,596	0	74,516	4,530	1,560	21,299	42,613	-2,918	

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 805 AF to Pacheco W.D., 59 AF to the City of Dos Palos and 3,666 AF to San Luis Water District.

3/ Includes 74 AF to the City of Huron, 165 AF to the City of Avenal, 327 AF to the City of Coalinga, 28 AF to City of Huron P&R @22R, 0 AF to Lemoore N.A.S. @29L, 0 AF GWF @ 30L, 0 F to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 5 AF to DFG @ 4L, 0 AF to Pilibos Wildlife @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DWR Water Truck @ 22R, 18 AF to DFG @ 7L, 0 AF Non-Project Water, 17,934 AF to Westlands Water District, and 2,748 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

March 2009

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
23	192	197	40	37	44	2,133	2,615	2,602	2,618
	56	68	14	12	15	1,186	1,457	1,411	1,383
	75	74	35	33	37	1,323	1,624	1,510	1,462
	197	218	22	19	21	1,475	1,508	1,463	1,467
	131	114	31	28	33	1,423	1,512	1,458	1,467
	104	91	31	28	32	1,574	1,908	1,726	1,636
	89	101	25	22	26	1,733	1,718	1,632	1,636
	50	65	34	31	35	1,657	2,236	2,186	2,040
	30	34	23	21	24	1,156	1,463	1,395	1,546
	137	150	34	30	34	1,229	1,576	1,504	1,467
	150	151	21	19	23	1,392	1,624	1,500	1,440
	111	99	26	24	28	1,628	1,686	1,505	1,440
	85	95	32	29	35	1,236	1,619	1,562	1,467
	120	143	27	23	28	1,418	1,534	1,463	1,467
	146	161	43	39	47	2,519	2,701	2,653	2,618
	71	83	29	27	32	1,418	1,562	1,205	1,467
	71	84	30	28	33	1,732	1,686	1,562	1,522
	92	104	41	37	44	1,895	1,830	1,700	1,691
	103	108	43	40	44	1,735	1,450	1,349	1,230
	125	135	43	40	45	1,894	1,624	1,543	1,522
	128	147	41	38	44	2,020	1,573	1,507	1,522
	119	135	60	56	61	2,829	2,922	2,859	2,793
	105	109	29	27	31	1,989	1,849	1,776	1,718
	278	273	46	42	48	1,985	1,905	1,788	1,713
	174	182	39	35	41	2,905	2,506	2,423	2,403
	111	105	37	34	39	2,444	2,293	2,134	2,138
	260	289	65	61	66	2,457	2,293	2,171	2,138
	232	230	38	36	40	2,478	2,298	2,171	2,141
	190	219	50	46	54	6,151	6,557	6,308	6,282
	112	117	37	34	39	3,978	4,040	3,941	3,983
	147	128	50	46	52	3,233	3,112	2,764	2,772
Total	3,992	4,209	1,116	1,022	1,175	64,224	66,282	62,772	62,190

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pump Recovery	Kern Water Bank Recovery	Carryover Article 56C		
	No.	Structure										
7	21	Check No. 21	172.40		42,613							
8C	22		172.66	Empire West Side ID TL - A	0				282 227 51 6	457		
				County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	457							
			175.18	Dudley Ridge WD - 1	282							
			177.54	Dudley Ridge WD - 1B	227							
			180.64	Tulare Lake Basin WSD - C	0							
			180.65	Dudley Ridge WD - 1A	0							
			182.99	Dudley Ridge WD - 2	51							
			183.00	Tulare Lake Basin WSD TL - B	6							
				County of Kings TL-B	0							
31A			184.00	Dudley Ridge WD - Paramount	0							
8D	22		184.63	Coastal Branch	3,992				21	0		
			184.78	Dudley Ridge WD - 3	21							
				Dudley Ridge Reach 8D Total:	581		0	0	581	0		
				Tulare Lake Basin WSD Total:	463		0	0	0	463		
			Check No. 22	184.82								
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	1,774			1,774 41 3 39 161 0 2,018	0 0 0 0 0 0 0	0 0 0 0 0 0 0		
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	41							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	3							
			196.40	Kern County Water Agency Berrenda Mesa - 2	39							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	161							
				KCWA Reach 9 Subtotal:	2,018		0	0	2,018	0		
				Check No. 23	197.05							
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	309			309 215 1 558	0 0 0 0	0 0 0 0		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	215							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	1							
			Check No. 24	207.94								
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	558							
			209.78	Kern National Wildlife Refuge USBR BV-1B	0							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	0							
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	0		0	0	0	0		
				KCWA Reach 10A Subtotal:	1,083		0	0	1,083	0		

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pump Recovery	Kern Water Bank Recovery	Carryover Article 56C		
	No.	Structure										
11B	25		210.75	Kern County Water Agency Belridge - 2	0			60				
			214.11	Kern County Water Agency Belridge - 3	60							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	4,241							
				Kern County Water Agency Belridge - 5D	12							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	4,313	0	0	4,313	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0			408				
				Kern County Water Agency West Kern - 3	408							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	0			147				
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	147							
			243.09	Kern County Water Agency Buena Vista - 3	0							
			Check No. 29	244.54								
	30		249.85	Kern County Water Agency Buena Vista - 4	480			480				
			Buena Vista Pumping Plant	250.99	64,224							
				KCWA Reach 13B Subtotal:	627							
14A	31		254.47	Kern County Water Agency West Kern - 2	0			211				
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	211							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2009

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	USBR	Pump Recovery	Kern Water Bank Recovery	Carryover Article 56C	
	No.	Structure	Mile							
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	467		467			
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	809		809			
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	1,487	0	0	1,487	0	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,540		1,540			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	178		178			
		Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,010		1,010			
		Check No. 34	271.27							
				Reach 14B Total:	2,728	0	0	2,728	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	869		869			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	396		396			
			277.30	Kern County Water Agency Arvin-Edison WSD	0					
				Reach 14C Total:	1,265	0	0	1,265	0	
	Teerink Pumping Plant		278.13		66,282					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	174		174			
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	717		717			
				Reach 15A Total:	891	0	0	891	0	
		Chrisman Pumping Plant	280.36		62,772					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
16A		Check No. 37	283.95							
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	24		24			
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	54		54			
38		287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
	Check No. 38	287.09								
		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	147		147				
39	Check No. 39	290.21								
		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	898		898				
		293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	127		127				
40			Kern County Water Agency Tehachapi Cummings CWD	0						
			KCWA Reach 16A Subtotal:	1,250	0	0	1,250	0		
	Edmonston Pumping Plant	293.45		62,190						

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

March 2009

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending									
	No.	Structure	Mile		Table A	USBR	Pump Recovery	Kern Water Bank Recovery	Carryover Article 56C	
31A	C-1	Coastal Branch Control	0.02		3,992					
		Las Perillas Pumping Plant	1.16		3,992					
	C-2		3.79	Green Valley Water District	0					
		Badger Hill Pumping Plant	4.27		4,209					
	C-3	Coastal Check No. 3	7.21							
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0					
		Coastal Check No. 4	9.34							
	C-5	Coastal Check No. 5	12.20							
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	3,035			3,035		
			14.83	Kern County Water Agency Berrenda Mesa - 1	3			3		
				Kern County Water Agency Berrenda Mesa - PO	0					
		Devil's Den Pumping Plant	14.86		1,116					
				KCWA Reach 31A Subtotal:	3,038	0	0	3,038	0	
				KCWA Total:	19,108	0	0	19,108	0	
33A	C-7	Bluestone Pumping Plant	19.05		1,022					
	C-8	Polonio Pass Pumping Plant	26.54		1,175					
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0					
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	894					
		Tank Site 2	58.63	Central Coast:	0					
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	261					
		Energy Dissipater	78.12							
	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0					
				CCWA Total:	1,155	261	0	0	894	
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0					
		Santa Maria T.O.	107.43	SBCFC & WCD	0					
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0					
38				SBCFC & WCD Total:	0	0	0	0	0	
		Tank Site 5	115.42							

Table 24. Southern Field Division Plant Data

(in acre-feet)

March 2009

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
28	1	2,889	1,737	0	0	1,569	0	98	0	0	0	21	0	111	13	13	7
	2	1,326	1,341	0	0	2,552	1,142	99	0	0	0	21	0	105	40	37	8
	3	1,388	1,458	0	0	2,481	0	99	0	0	69	20	0	49	41	37	10
	4	1,384	1,458	0	0	1,245	1,736	168	0	0	69	20	0	51	40	37	17
	5	1,386	1,292	0	0	2,386	660	100	0	0	0	20	0	91	40	38	8
	6	1,382	1,425	0	0	1,798	1,766	211	0	0	186	20	0	299	39	37	8
	7	1,378	1,363	0	0	2,070	0	266	0	0	186	133	0	239	0	0	0
	8	2,074	1,369	0	0	635	0	108	0	0	0	21	0	236	14	11	7
	9	1,380	1,596	0	0	3,079	0	132	0	0	69	21	0	251	39	38	8
	10	1,134	1,490	0	0	762	0	298	0	0	247	21	0	342	38	38	8
	11	1,150	1,216	0	0	2,516	0	325	0	0	247	20	0	283	38	38	8
	12	1,129	1,456	0	0	1,335	0	325	0	0	248	311	0	336	24	24	9
	13	1,160	1,367	0	0	1,782	0	266	0	0	249	188	0	462	27	28	9
	14	1,127	1,395	0	0	1,214	0	319	0	0	249	188	0	237	0	0	0
	15	2,148	1,448	0	0	1,358	2,616	318	0	0	244	188	0	464	12	13	7
	16	1,136	1,419	0	0	2,911	886	345	0	0	248	176	0	338	38	38	8
	17	1,118	1,473	0	0	3,019	732	279	0	0	245	225	0	364	39	39	17
	18	1,541	1,450	0	0	2,894	855	255	0	0	248	219	0	404	38	38	16
	19	1,229	1,577	0	0	1,953	629	286	0	0	248	295	0	423	39	39	9
	20	1,170	1,451	0	0	3,111	818	353	0	0	248	220	0	495	38	31	9
	21	1,170	1,429	0	0	186	0	351	0	0	248	207	0	725	8	0	9
	22	2,559	1,389	0	0	482	0	406	0	0	248	220	0	1,310	29	21	8
	23	1,495	1,567	0	0	1,482	0	413	0	0	248	222	0	745	46	32	7
	24	1,437	795	0	0	748	700	215	0	0	139	0	19	626	45	35	7
	25	2,074	1,575	0	0	2,740	0	184	0	0	139	171	0	808	44	34	8
	26	1,706	1,575	0	0	3,373	0	330	0	0	248	267	0	802	52	36	9
	27	1,706	1,577	0	0	2,987	0	377	0	0	257	293	0	754	46	36	12
	28	1,706	1,574	0	0	311	367	455	0	0	339	370	0	754	0	0	0
	29	2,559	1,570	0	0	647	1,937	2,845	0	992	3,480	3,168	0	537	46	36	12
	30	1,707	1,567	0	0	2,131	0	2,145	0	0	2,259	2,548	0	477	49	57	18
	31	1,599	1,565	0	0	2,156	0	1,195	0	0	899	846	0	454	68	48	0
Total	48,347	44,964	0	0	57,913	14,844	13,566	0	992	11,804	10,475	204	0	13,572	1,030	909	263

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project			To Piru Creek		
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Feb 28	2574.56	165,498											
1	2574.85	165,866	368	0	1,737	0	153	1,569	0	60	0	107	
2	2574.65	165,612	-254	1,142	1,341	0	165	2,552	0	83	0	-267	
3	2574.07	164,877	-735	0	1,458	0	268	2,481	0	115	0	135	
4	2575.71	166,961	2,084	1,736	1,458	0	270	1,245	0	198	0	63	
5	2574.95	165,993	-968	660	1,292	0	290	2,386	0	234	0	-590	
6	2576.15	167,524	1,531	1,766	1,425	0	233	1,798	0	198	0	103	
7	2575.35	166,502	-1,022	0	1,363	0	195	2,070	0	196	0	-314	
8	2576.12	167,485	983	0	1,369	0	169	635	0	159	0	239	
9	2574.74	165,726	-1,759	0	1,596	0	156	3,079	0	135	0	-297	
10	2575.24	166,362	636	0	1,490	0	140	762	1	123	0	-108	
11	2573.90	164,662	-1,700	0	1,216	0	129	2,516	0	89	0	-440	
12	2574.14	164,966	304	0	1,456	0	116	1,335	0	60	0	127	
13	2573.76	164,485	-481	0	1,367	0	106	1,782	0	60	0	-112	
14	2573.93	164,700	215	0	1,395	0	97	1,214	0	52	0	-11	
15	2576.33	167,754	3,054	2,616	1,448	0	88	1,358	0	52	0	312	
16	2575.93	167,242	-512	886	1,419	0	81	2,911	0	52	0	65	
17	2575.30	166,439	-803	732	1,473	0	74	3,019	0	52	0	-11	
18	2574.70	165,676	-763	855	1,450	0	72	2,894	0	52	0	-194	
19	2574.85	165,866	190	629	1,577	0	72	1,953	0	52	0	-83	
20	2574.05	164,852	-1,014	818	1,451	0	76	3,111	1	52	0	-195	
21	2575.05	166,120	1,268	0	1,429	0	81	186	0	52	0	-4	
22	2575.88	167,179	1,059	0	1,389	0	80	482	0	52	0	124	
23	2575.88	167,179	0	0	1,567	0	80	1,482	0	52	0	-113	
24	2577.30	168,999	1,820	700	795	0	73	748	0	51	0	1,051	
25	2576.44	167,895	-1,104	0	1,575	0	66	2,740	0	51	0	46	
26	2574.64	165,599	-2,296	0	1,575	0	62	3,373	0	51	0	-509	
27	2573.23	163,816	-1,783	0	1,577	0	60	2,987	0	51	0	-382	
28	2574.65	165,612	1,796	367	1,574	0	58	311	0	51	0	159	
29	2577.15	168,806	3,194	1,937	1,570	0	55	647	0	51	0	330	
30	2576.63	168,138	-668	0	1,567	0	53	2,131	0	51	0	-106	
31	2576.30	167,716	-422	0	1,565	0	53	2,156	0	51	0	167	
Total				2,218	14,844	44,964	0	3,671	57,913	2	2,638	0	-708

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Feb 28	1513.47	20,544								
1	1517.34	22,121	1,577	1,569	18	0	18	0	8	
2	1514.65	21,018	-1,103	2,552	17	1,142	17	2,478	-35	
3	1514.76	21,063	45	2,481	16	0	16	2,420	-16	
4	1513.48	20,548	-515	1,245	21	1,736	21	0	-24	
5	1512.81	20,282	-266	2,386	22	660	22	1,959	-33	
6	1503.05	16,604	-3,678	1,798	19	1,766	19	3,691	-19	
7	1508.99	18,798	2,194	2,070	18	0	18	0	124	
8	1510.50	19,377	579	635	17	0	17	0	-56	
9	1518.11	22,442	3,065	3,079	16	0	16	0	-14	
10	1513.73	20,648	-1,794	762	14	0	14	2,490	-66	
11	1514.62	21,006	358	2,516	13	0	13	2,144	-14	
12	1511.59	19,801	-1,205	1,335	12	0	12	2,528	-12	
13	1511.26	19,672	-129	1,782	10	0	10	1,901	-10	
14	1514.55	20,978	1,306	1,214	9	0	9	0	92	
15	1510.96	19,555	-1,423	1,358	9	2,616	9	0	-165	
16	1515.87	21,515	1,960	2,911	9	886	9	0	-65	
17	1514.69	21,035	-480	3,019	9	732	9	2,735	-32	
18	1514.58	20,990	-45	2,894	9	855	9	2,075	-9	
19	1511.31	19,692	-1,298	1,953	9	629	9	2,612	-10	
20	1511.89	19,919	227	3,111	7	818	7	2,061	-5	
21	1512.45	20,139	220	186	7	0	7	0	34	
22	1513.68	20,628	489	482	7	0	7	0	7	
23	1511.15	19,629	-999	1,482	7	0	7	2,459	-22	
24	1502.77	16,504	-3,125	748	7	700	7	3,166	-7	
25	1510.27	19,288	2,784	2,740	6	0	6	0	44	
26	1512.10	20,001	713	3,373	6	0	6	2,653	-7	
27	1512.83	20,290	289	2,987	5	0	5	2,697	-1	
28	1512.73	20,250	-40	311	5	367	5	0	16	
29	1509.41	18,958	-1,292	647	5	1,937	5	0	-2	
30	1514.63	21,010	2,052	2,131	4	0	4	0	-79	
31	1512.74	20,254	-756	2,156	4	0	4	2,901	-11	
Total				-290	57,913	337	14,844	337	42,970	-389

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Feb28	1492.25	275,177								
1	1492.06	274,791	-386	18	0	14	298	42	-78	
2	1493.17	277,050	2,259	17	2,478	14	347	42	139	
3	1494.05	278,848	1,798	16	2,420	14	636	42	26	
4	1493.78	278,295	-553	21	0	30	582	60	38	
5	1494.49	279,749	1,454	22	1,959	41	401	89	-78	
6	1496.01	282,877	3,128	19	3,691	27	338	89	-182	
7	1495.82	282,485	-392	18	0	24	308	56	-70	
8	1495.66	282,155	-330	17	0	21	347	56	35	
9	1495.38	281,578	-577	16	0	19	474	56	-82	
10	1496.41	283,704	2,126	14	2,490	19	545	56	204	
11	1497.10	285,133	1,429	13	2,144	18	552	52	-142	
12	1497.89	286,775	1,642	12	2,528	18	904	48	36	
13	1498.22	287,462	687	10	1,901	16	1,214	48	22	
14	1497.50	285,964	-1,498	9	0	16	1,487	48	12	
15	1496.70	284,304	-1,660	9	0	15	1,625	48	-11	
16	1495.90	282,650	-1,654	9	0	15	1,683	44	49	
17	1496.45	283,787	1,137	9	2,735	15	1,745	40	163	
18	1496.58	284,056	269	9	2,075	13	1,731	39	-58	
19	1496.97	284,864	808	9	2,612	13	1,750	39	-37	
20	1497.10	285,133	269	7	2,061	10	1,759	39	-11	
21	1496.33	283,539	-1,594	7	0	10	1,649	39	77	
22	1495.53	281,887	-1,652	7	0	12	1,626	39	-6	
23	1495.94	282,733	846	7	2,459	12	1,628	37	33	
24	1496.66	284,221	1,488	7	3,166	11	1,591	37	-68	
25	1495.90	282,650	-1,571	6	0	10	1,657	37	107	
26	1496.29	283,456	806	6	2,653	9	1,731	37	-94	
27	1496.74	284,387	931	5	2,697	9	1,730	30	-20	
28	1495.90	282,650	-1,737	4	0	8	1,726	30	7	
29	1495.06	280,920	-1,730	4	0	8	1,673	30	-39	
30	1494.26	279,278	-1,642	4	0	7	1,702	30	79	
31	1494.81	280,406	1,128	4	2,901	7	1,867	99	182	
Total			5,229	335	42,970	475	37,306	1,478	233	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

March 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	Local	Article 56C/12E	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		48,347							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	2	2	2	2	2	2	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(No flow through Gorman Creek Imp. Channel)	44,964							
29H	W3	Pyramid Lake		USFS		2	2	2	2	2	2	
				Pyramid Recreation (T300)	2							
29J	W4	Pyramid Dam	17.10	United WA (T300)	0	2	2	2	2	2	2	
				California State Park								
		Castaic Power Plant	25.82	Piru Fish (T300)	0	2	2	2	2	2	2	
				(18,844 AF pumpback) 2/	57,913							
	W5	Elderberry Forebay				2	2	2	2	2	2	
			28.12									
30 1/	W5	Castaic Lake Dam		California State Park		2	2	2	2	2	2	
			31.47	Castaic Lake Recreation (T301)	2							
	W5	Castaic Lake Outlet		MWDSC 78" & 132" (T302)	35,042	2	2	2	2	2	2	
			31.6	Castaic Lake WA 18", 24" & 54" (T303)	956							
	W5	Castaic Lake Outlet		Castaic Lake WA Rio Vista T.P. (T304)	1,306	2	2	2	2	2	2	
				MWD-Ventura Co. WPD (T302)	0							
	W5	Castaic Lake Outlet		Releases to Lagoon	1,478	2	2	2	2	2	2	
				Reach 30 Subtotal:	37,306							
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0	2	2	2	2	2	2	
			31.9		1,213							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 1,326 Af of Kern-Delta Water Bank Recovery, 5,362 Af of Semitropic Recovery, and 3,528 AF of Arvin Edison Recovery.

4/ Flexible Withdrawal.

5/ Article 56C.

6/ General Conveyance of Article 55 non-project water.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Feb 28	3351.37	71,473												
1	3351.40	71,501	28	0	21	74	3	0	111	0	18	65	18	
2	3351.37	71,473	-28	0	21	72	3	0	105	0	18	5	18	
3	3351.37	71,473	0	0	20	71	3	0	49	0	1	-38	18	
4	3351.63	71,720	247	0	20	78	4	0	51	0	18	222	18	
5	3351.37	71,473	-247	0	20	91	3	0	91	0	18	-246	18	
6	3351.80	71,882	409	20	0	71	3	0	299	0	1	621	18	
7	3351.32	71,425	-457	133	0	62	2	1	239	0	18	-392	18	
8	3350.98	71,102	-323	0	21	58	3	0	236	0	18	-145	18	
9	3350.82	70,949	-153	0	21	54	3	0	251	0	1	27	18	
10	3350.53	70,676	-273	0	21	48	3	0	342	0	18	21	18	
11	3350.25	70,412	-264	0	20	46	3	0	283	0	1	-43	18	
12	3350.31	70,469	57	311	0	42	3	0	336	0	18	61	18	
13	3350.02	70,195	-274	188	0	39	3	0	462	0	1	-35	18	
14	3349.97	70,148	-47	188	0	37	3	0	237	0	18	-14	18	
15	3349.83	70,016	-132	188	0	35	3	0	464	0	1	113	18	
16	3349.66	69,857	-159	176	0	33	2	1	338	0	18	-9	18	
17	3349.55	69,753	-104	225	0	32	3	0	364	0	1	7	18	
18	3349.41	69,622	-131	219	0	30	3	0	404	0	18	45	18	
19	3349.27	69,491	-131	295	0	29	3	0	423	0	1	-28	18	
20	3349.01	69,248	-243	220	0	29	3	0	495	0	18	24	18	
21	3348.48	68,753	-495	207	0	27	3	0	725	0	1	0	18	
22	3348.11	68,409	-344	220	0	36	3	0	1,310	0	18	731	18	
23	3347.53	67,872	-537	222	0	36	2	1	745	0	18	-29	18	
24	3346.88	67,272	-600	0	19	31	3	0	626	0	1	-20	18	
25	3346.23	66,676	-596	171	0	29	3	0	808	0	18	33	18	
26	3345.47	65,982	-694	267	0	27	4	0	802	0	18	-164	18	
27	3345.08	65,627	-355	293	0	24	4	0	754	0	18	104	18	
28	3344.89	65,455	-172	370	0	18	3	0	754	0	1	198	18	
29	3347.69	68,020	2,565	3,168	0	19	3	0	537	0	17	-65	18	
30	3349.94	70,120	2,100	2,548	0	19	3	0	477	0	17	30	17	
31	3350.42	70,572	452	846	0	17	3	0	454	0	17	63	17	
Total				-901	10,475	204	1,314	93	3	13,572	0	368	1,142	555

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

March 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Feb 28	1554.29	58,914				
1	1554.01	58,441	-473		185	
2	1554.26	58,863	422		64	
3	1554.26	58,863	0		24	
4	1554.31	58,948	85		25	
5	1554.26	58,863	-85		25	
6	1554.26	58,863	0		34	
7	1554.29	58,910	47		25	
8	1554.29	58,914	4		42	
9	1554.37	59,049	135		25	
10	1554.26	58,863	-186		25	
11	1554.29	58,914	51		12	
12	1554.26	58,863	-51		5	
13	1554.23	58,812	-51		5	
14	1554.29	58,914	102		4	
15	1554.29	58,914	0		5	
16	1554.29	58,914	0		5	
17	1554.18	58,728	-186		7	
18	1553.06	56,850	-1,878		14	
19	1554.00	58,424	1,574		24	
20	1554.27	58,880	456		45	
21	1554.45	59,185	305		45	
22	1554.73	59,660	475		44	
23	1554.81	59,796	136		45	
24	1555.03	60,171	375		44	
25	1555.25	60,547	376		46	
26	1555.41	60,822	275		44	
27	1555.69	61,303	481		45	
28	1555.85	61,579	276		44	
29	1556.10	62,010	431		45	
30	1556.10	62,010	0		45	
31	1555.99	61,820	-190		45	
Total		2,906		5,415	1,092	-1,417

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

March 2009

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Rec.	Recovery	Local	Article 56C/12E	Other	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45	62,190							
	41		298.65		KCWA Tej.-Cas	Stub					
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0						
		Check No. 42	304.99								
18A	43	Alamo Powerplant	305.73	(Includes 13,566 AF generation, 0 AF plant bypass, and 992 AF Tehachapi bypass)	14,558						
			306.71	AVEK 305th Street West (T287)		0					
19	44		308.05	AVEK 294th Street West (T267)	0						
		Check No. 43	309.70								
19	45		311.84	LADWP Connection	0						
		Check No. 44	313.50	AVEK 245th Street West (T269)		0					
19	45		314.81	AVEK 235th Street West (T270)	0						
		Check No. 45	315.57	AVEK 225th Street West (T271)		0					
19	46		319.74	Antelope Valley-East Kern WA Fairmont (T272)	183					1/ 183	
			323.19	Mojave Water Agency Fairmont (T272)		118					
19	46	Check No. 46	323.84	Reach 19 Total:	301	38	0	0	263	0	
		Check No. 47	326.77								
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	22					1/ 22	
			329.65	Antelope Valley-East Kern WA 120th Street West		Removed					
20A	49	Check No. 48	330.82								
		Check No. 49	335.93								
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	655					1/ 655	
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)		8					
20B	51		340.92	AVEK WA-Temp (T387)	0					1/ 8	
		Check No. 50	341.51								
20B	51		342.06	AVEK WA-Temp (T386)	0						
		Check No. 51	342.07								
20B	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0						
		Check No. 52	343.74								
20B	53		346.98	Palmdale WD (T276) Temp.	969					1/ 969	
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)		0					
21	53	Check No. 53	348.17								
			349.52	Palmdale WD (T394)		0					
21	54	Check No. 54	350.25								
		Check No. 55	352.70								
21	56	Check No. 56	354.76								
			354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)		0					
22A	57		354.97	Palmdale WD (T276)	0						
			354.97	Palmdale WD (T391)		0					
22A	58	Check No. 57	356.93								
			357.60	AVEK 95th Street East (T279)		53					
22A	58		357.72	AVEK 96th Street East (T280)	30						
			359.76	AVEK East Side Treatment Plant (T281)		16					

1/ Article 56C.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

March 2009

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending				Table A	Rec.	Recovery	Local	Article 56C/12E	Other		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		11,804	31	691	3	66	1/ 555		
	59	Check No. 59	366.09									
	60		366.50	AVEK Big Rock Siphon (T368)	0							
	61	Check No. 60	373.94									
	62	Check No. 61	379.00									
	63	Check No. 62	384.26									
	64		389.20	Mojave Water Agency White Road 24" & 42" (T282)	31							
	65	Check No. 63	395.10									
	66	Check No. 64	400.32									
			401.10	Mojave Water Agency Morongo 24" & 42" (T284)	691							
23		Check No. 65	403.41									
24	67	Mojave Siphon	405.58	Las Flores Ranch Exchange	555	3	66	2/ 27	66	2/ 27		
		Mojave Siphon Powerplant	405.65		10,475							
		Silverwood Lake	407.65	MWA CS DAM (T288)	0							
				California State Park Silverwood (T288)	3							
		San Bernardino Intake Tunnel	407.70	Crestline-Lake Arrowhead WA State Project Water (T289)	0							
25				Non-Project Water (T289)	93							
26A	68	Devil Canyon Powerplant	412.73		13,572	2,483	3/ 154	4/ 1,247	4/ 1,247	4/ 1,247		
		Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0							
				MWD-Rialto (T293)	2,483							
				Desert Water Agency Transfer (T293)	0							
				Coachella Valley WD Transfer (T293)	0							
				MWD EBX-1 (T290)	0							
				MWD EBX-1 (T291)	0							
				East Branch Extension	1,401							
				San Bernardino Valley MWD	0							
28G	69	Santa Ana Valley Pipeline	425.46			892	70	0	0	5/ 3,114		
28H			433.06	MWD-SC Box Springs (T295)	4,006							
			440.05	MWD-SC Perris Bypass Pipeline (T296)	0							
28J	69	Lake Perris	442.00	MWD-SC (T297)	146	70	0	10,216	0	5/ 146		
			443.44	MWD-SC 54" & 78" (T299)	876							
				Calif. State Park								
				Lake Perris Parks & Rec. (T298)	70							
				MWD Total:	42,553	14,734	0	10,216	0	17,603		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ SBVMWD's stored 2005 Table A water transferred to Crestline Lake Arrowhead WA.

3/ Includes 0 AF to San Gabriel Valley MWD, 0 AF to San Bernardino Valley MWD, and 154 AF to San Gorgonio Pass WA.

4/ Includes 1,080 AF to of Article 56C to San Bernardino Valley MWD and 167 AF of Article 12E to San Gorgonio Pass WA.

5/ Flexible Withdrawal.

Table 32. Water Quality At Selected SWP Locations

March 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	47	113	76	78	93	95	74	79	79
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.006	0.006	0.004
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.04	0.17	0.19	0.28	0.42	0.26	0.27	0.24
Calcium	mg/l	10	16	23	23	30	28	31	33	25
Chloride	mg/l as C	1	25	57	60	87	133	73	75	72
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	0	0
Copper	mg/l	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	<0.1	NR	NR	NR	NR	NR	0.100	NR	NR
Hardness	mg/l	44.000	106.000	118.000	116.000	152.000	158.000	103.000	112.000	98.000
Iron	mg/l	0	0	0	0	0	<0.005	<0.005	<0.005	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	5.000	16.000	15.000	14.000	19.000	21.000	6.000	8.000	8.000
Manganese	mg/l	<0.005	0.084	0.009	0.017	0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0	0	NR	1	1	1	1	1	1
Organic Carbon, Dissolved	mg/l	NR	17.800	6.800	7.600	6.000	3.400	1.500	1.400	2.100
Organic Carbon, Total	mg/l as N	NR	19.20	6.90	7.90	6.20	3.60	1.60	1.40	2.20
Phosphate-Ortho	mg/l as P	<0.01	0.15	NR	0.07	0.08	0.02	NR	0.01	0.02
Phosphorus-Total	mg/l	0.02	0.33	NR	0.10	0.10	0.03	0.02	0.02	0.03
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	4	37	41	43	66	88	63	67	55
Specific Conductance	µS/cm	99	341	433	415	608	726	493	511	474
Sulfate	mg/l	2	21	38	40	68	61	56	68	44
Total Dissolved Solids	mg/l	61	203	251	252	352	408	297	315	270
Turbidity	NTU	6	44	14	9	5	<1	2	3	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

March 2009

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.80	3.99	30,375	20,881	29,512	0.37	0.22	0.17	0.29	0.34	0.52	0.65	0.79	0.72	103
2	6.33	4.60	27,511	21,480	26,236	0.35	0.24	0.17	0.25	0.33	0.48	0.63	0.73	0.68	96
3	6.62	4.68	29,699	22,180	26,107	0.34	0.34	0.19	0.22	0.31	0.45	0.62	0.27	0.65	94
4	6.62	4.64	41,261	23,268	31,944	0.33	0.22	0.21	0.21	0.31	0.42	0.67	0.24	0.67	95
5	6.30	4.46	51,252	24,707	39,035	0.32	0.20	0.22	0.20	0.30	0.40	0.61	0.38	0.67	94
6	6.40	4.47	51,917	26,190	41,668	0.31	0.20	0.19	0.20	0.28	0.38	0.65	0.54	0.79	96
7	6.23	4.28	49,761	27,600	40,903	0.30	0.20	0.19	0.19	0.26	0.36	0.66	0.66	0.85	95
8	6.29	4.28	44,037	28,787	37,116	0.28	0.19	0.17	0.19	0.25	0.34	0.65	0.73	0.84	98
9	5.91	4.03	34,673	29,597	30,699	0.27	0.17	0.17	0.19	0.25	0.33	0.57	0.82	0.70	95
10	5.54	3.77	27,463	30,170	25,626	0.26	0.17	0.17	0.19	0.24	0.31	0.58	0.86	0.68	95
11	5.49	3.85	22,585	30,581	22,318	0.26	0.17	0.18	0.19	0.24	0.30	0.57	0.88	0.63	95
12	5.67	3.94	18,612	30,839	19,578	0.25	0.18	0.20	0.18	0.24	0.29	0.51	0.91	0.59	97
13	5.81	3.99	15,237	31,030	17,384	0.26	0.19	0.21	0.19	0.24	0.28	0.51	0.94	0.57	98
14	5.94	4.11	12,619	31,154	15,704	0.25	0.19	0.22	0.19	0.25	0.27	0.49	0.94	0.56	95
15	5.90	3.96	9,412	31,141	12,944	0.26	0.20	0.22	0.19	0.25	0.27	0.50	0.96	0.61	97
16	5.73	3.84	8,398	30,961	12,005	0.27	0.22	0.23	0.20	0.25	0.26	0.50	0.97	0.61	100
17	5.34	3.69	7,488	30,694	11,398	0.27	0.22	0.23	0.20	0.25	0.26	0.51	0.98	0.60	100
18	5.18	3.71	6,811	30,377	10,846	0.27	0.22	0.24	0.20	0.25	0.25	0.53	0.97	0.57	98
19	5.25	3.85	6,997	30,010	10,628	0.27	0.27	0.24	0.20	0.26	0.25	0.51	0.97	0.49	100
20	5.34	3.96	9,077	29,207	12,264	0.28	0.57	0.25	0.21	0.26	0.25	0.45	0.96	0.52	102
21	5.66	4.20	9,311	28,216	12,147	0.28	1.19	0.25	0.21	0.26	0.25	0.46	0.95	0.54	105
22	5.88	4.26	8,027	27,147	10,709	0.31	1.50	0.25	0.22	0.27	0.25	0.40	0.96	0.56	104
23	4.99	3.51	9,047	26,093	10,264	0.29	0.60	0.24	0.22	0.26	0.25	0.45	0.99	0.71	100
24	5.03	3.48	9,512	25,210	10,313	0.30	0.65	0.24	0.23	0.26	0.25	0.44	0.99	0.69	101
25	5.12	3.66	8,901	24,589	9,446	0.31	0.81	0.24	0.23	0.26	0.25	0.39	0.98	0.60	102
26	5.37	3.72	8,493	23,904	9,157	0.32	0.99	0.24	0.24	0.26	0.26	0.45	0.96	0.56	101
27	5.51	3.70	8,024	22,912	8,955	0.34	0.88	0.24	0.24	0.26	0.26	0.42	0.98	0.58	64
28	5.77	3.92	7,245	21,770	8,571	0.35	1.29	0.25	0.24	0.26	0.26	0.50	0.99	0.55	102
29	6.19	4.01	5,933	20,553	8,199	0.43	1.69	0.26	0.24	0.27	0.26	0.35	0.99	0.47	100
30	5.88	3.85	6,143	19,527	8,395	0.36	1.33	0.25	0.24	0.27	0.26	0.58	0.99	0.52	103
31	6.03	4.09	6,138	18,718	8,091	0.47	1.94	0.26	0.25	0.27	0.26	0.39	0.95	0.46	97

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

March 2009

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 17, 2008	Atrazine	0.11
California Aqueduct At Banks Pumping Plant	June 18, 2008	Diuron Metolachlor Simazine	0.25 0.20 0.02
O'Niell Forebay Outlet Check 13	June 18, 2008	Diuron Simazine	0.27 0.03
Delta Mendota Canal At McCabe Road	June 18, 2008	Diuron Metolachlor	0.29 0.10
California Aqueduct Near Kettleman City (Check 21)	March 17, 2009	Diuron	0.68
California Aqueduct At Near Highway 119 (Check 29)	March 17, 2009	Diuron	0.56
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 18, 2008	Diuron Simazine	0.40 0.10

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

March 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	602,921	990	408	463	1,959,240	1,959,240	126,614	988
2	170,016	495	402	467	1,712,184	1,712,184	118,141	963
3	915,068	198	399	4,332	1,728,416	1,728,416	101,756	954
4	575,091	0	402	457	1,406,560	1,406,560	145,342	1,009
5	503,998	0	409	3,185	1,244,320	1,244,320	146,539	1,032
6	639,694	0	138	4,436	1,244,712	1,244,712	165,477	1,035
7	759,638	0	0	2,117	1,243,456	1,243,456	166,953	1,012
8	773,432	0	0	433	1,612,040	1,612,040	161,609	912
9	768,130	0	0	449	1,246,728	1,246,728	168,733	941
10	874,445	0	0	827	1,246,200	1,246,200	165,649	930
11	842,523	0	188	162	1,663,536	1,663,536	150,378	927
12	596,134	0	397	155	1,637,432	1,637,432	132,238	930
13	578,633	0	421	447	1,942,048	1,942,048	171,340	939
14	473,594	7,194	419	447	1,947,472	1,947,472	171,981	954
15	42,009	7,216	403	448	1,953,544	1,953,544	173,308	949
16	405,427	124,245	5,267	3,576	1,769,952	1,769,952	154,485	942
17	971,608	7,722	1,924	5,132	1,992,072	1,992,072	160,529	932
18	1,791,163	6,072	1,491	2,603	1,992,672	1,992,672	170,763	919
19	46,024	9,086	408	1,142	1,960,144	1,960,144	197,523	876
20	49,247	112,794	1,622	4,739	1,961,520	1,961,520	230,676	909
21	49,357	93,291	786	1,172	1,960,512	1,960,512	201,636	929
22	49,753	8,976	1,552	3,771	1,963,544	1,963,544	200,408	929
23	49,445	110,121	1,038	1,376	1,429,472	1,429,472	209,601	935
24	50,259	65,494	1,187	3,458	1,376,168	1,376,168	195,442	923
25	50,787	123,409	666	863	1,384,264	1,384,264	172,720	920
26	49,753	123,288	1,285	2,988	1,239,344	1,239,344	142,574	915
27	49,632	96,184	671	479	1,249,744	1,249,744	21,364	880
28	50,688	95,051	415	477	1,041,704	1,041,704	107,919	870
29	50,864	94,886	412	465	1,412,304	1,412,304	180,775	935
30	193,644	8,943	1,922	5,820	1,411,640	1,411,640	221,225	923
31	257,015	8,745	1,311	471	1,228,328	1,228,328	239,152	886
Total	13,279,992	1,104,400	25,943	57,357	49,161,272	49,161,272	5,072,850	29,098

Table 36. San Luis Field Division Energy Data

(in kWh)

March 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	368,070	256,070	0	0	3,028,014	2,196,014
2	73,855	-38,145	0	0	2,593,591	1,353,591
3	121,327	9,327	0	0	2,599,916	1,375,916
4	120,060	-7,940	0	0	2,589,752	1,349,752
5	158,195	46,195	0	0	2,028,125	1,404,125
6	163,898	51,898	0	0	1,514,205	1,498,205
7	265,891	153,891	0	0	2,082,663	1,250,663
8	268,995	170,995	0	0	1,412,059	782,059
9	126,155	-1,845	0	0	1,228,293	898,293
10	126,760	14,760	0	0	1,518,363	1,172,363
11	192,403	80,403	0	0	1,227,028	1,219,028
12	241,368	129,368	0	0	2,100,340	1,460,340
13	311,814	199,814	0	0	2,368,894	1,144,894
14	236,633	124,633	0	0	2,380,367	1,156,367
15	412,916	300,916	0	0	3,499,518	1,663,518
16	221,298	93,298	0	0	2,378,937	1,138,937
17	221,236	109,236	0	0	2,953,489	1,117,489
18	344,045	232,045	0	0	3,123,208	1,883,208
19	227,754	99,754	0	0	1,606,110	966,110
20	414,762	302,762	0	0	2,283,644	1,953,644
21	364,504	252,504	0	0	2,288,011	1,370,011
22	577,294	465,294	0	0	2,787,796	1,869,796
23	229,792	117,792	0	0	1,026,586	696,586
24	314,068	202,068	53,108	53,108	1,225,323	1,225,323
25	655,373	431,373	427,680	427,680	982,553	982,553
26	493,218	277,218	0	0	351,934	327,934
27	495,546	271,546	0	0	20,746	20,746
28	487,077	263,077	0	0	20,592	20,592
29	1,084,550	724,550	0	0	210,540	210,540
30	619,103	267,103	0	0	1,034,605	1,034,605
31	597,149	245,149	0	0	1,028,896	1,012,896
Total	10,535,109	5,845,109	480,788	480,788	55,494,098	35,756,098

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

March 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	14,738	38,841	29,189	27,170	30,489	520,432	691,545	1,566,224	5,833,863
2	4,931	12,129	10,429	9,432	10,629	294,348	384,796	849,992	3,104,325
3	6,460	14,036	24,459	23,788	25,682	324,369	425,766	917,059	3,292,920
4	15,613	41,062	16,362	14,839	15,825	367,130	400,091	875,644	3,287,979
5	11,263	27,764	22,465	20,885	23,742	344,199	406,459	878,900	3,253,338
6	8,918	21,086	22,547	20,621	22,751	382,391	502,271	1,052,579	3,606,822
7	7,165	17,271	18,283	16,488	18,801	418,495	450,269	995,423	3,617,028
8	4,297	10,972	23,106	21,791	23,630	386,794	556,813	1,253,417	4,510,971
9	3,169	6,638	17,276	16,462	17,686	280,500	381,956	843,282	3,425,517
10	10,739	25,985	24,641	22,313	24,567	300,070	419,959	905,850	3,289,761
11	12,489	29,991	15,635	14,788	16,805	339,448	425,649	901,340	3,290,058
12	9,304	24,930	19,490	18,323	20,165	392,131	433,720	911,416	3,192,156
13	6,884	17,556	23,331	21,376	24,575	303,163	426,886	936,232	3,241,890
14	9,327	24,041	19,911	17,873	19,813	345,976	402,857	879,043	3,240,783
15	11,045	26,858	30,690	28,860	32,776	605,957	709,810	1,600,808	6,011,496
16	5,978	14,566	21,648	20,349	22,514	342,796	415,783	909,634	3,245,022
17	6,007	14,711	21,940	20,692	23,291	417,601	444,520	938,025	3,417,525
18	7,378	17,727	29,705	27,150	30,725	455,680	480,893	1,038,400	3,795,174
19	8,403	19,297	31,189	29,355	31,068	417,491	385,262	812,086	2,743,065
20	10,432	25,467	31,331	29,129	31,572	456,526	428,643	934,582	3,406,509
21	9,814	24,458	30,357	28,041	31,137	495,280	415,804	915,167	3,405,294
22	10,099	25,223	47,531	43,675	47,487	687,762	769,374	1,707,167	6,312,087
23	8,476	20,170	21,778	20,014	22,416	490,381	487,546	1,068,320	3,836,646
24	21,437	55,074	33,066	30,650	33,692	489,712	503,504	1,083,203	3,872,205
25	13,803	37,932	28,251	25,791	29,127	706,717	659,781	1,469,270	5,351,427
26	9,307	18,610	27,133	24,901	27,632	593,833	602,411	1,282,589	4,735,476
27	20,012	53,067	46,061	43,393	46,060	615,030	609,067	1,308,395	4,739,958
28	17,419	44,021	28,283	26,110	28,144	600,035	603,457	1,302,158	4,758,588
29	13,945	35,804	36,241	33,503	37,503	1,507,213	1,709,373	3,790,622	14,059,386
30	8,820	21,907	27,519	25,497	27,412	972,456	1,071,091	2,398,913	9,076,698
31	11,980	28,116	36,547	33,379	36,682	785,490	788,472	1,688,445	6,228,117
Total	319,652	795,310	816,394	756,638	834,398	15,639,406	17,393,828	38,014,185	139,182,084

Table 38. Southern Field Division Energy Data

(in kWh)

March 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	675,329	1,019,807	1,368,000	7,508	14,742	106,618	0	8,891	11,454	396
2	353,326	808,575	1,368,000	7,366	15,314	98,220	0	24,321	32,366	400
3	366,718	863,672	1,368,000	7,377	62,837	23,270	0	25,028	31,289	1,649
4	366,632	876,886	1,368,000	14,789	64,087	39,708	0	24,059	31,634	1,552
5	371,971	786,518	1,368,000	7,501	17,408	92,099	0	24,314	32,242	409
6	370,785	859,594	1,368,000	21,214	145,913	351,511	0	23,445	31,170	418
7	365,498	830,360	1,368,000	27,932	145,369	278,543	6,962	1,528	525	403
8	521,414	827,833	1,311,000	9,054	15,502	270,410	0	9,443	9,802	386
9	369,649	957,371	1,368,000	15,051	63,791	288,709	0	23,198	32,482	408
10	305,818	881,868	1,368,000	33,749	189,264	405,432	0	22,843	32,548	400
11	307,756	744,128	1,368,000	35,532	185,564	330,396	0	21,559	30,813	408
12	304,221	860,356	1,368,000	34,788	187,482	384,852	22,741	14,543	20,346	407
13	303,171	834,583	1,368,000	28,027	187,258	538,951	11,155	16,654	23,002	407
14	304,378	833,158	1,368,000	34,828	185,498	265,786	11,403	1,485	532	400
15	575,115	857,859	1,368,000	34,855	186,132	566,298	11,421	8,407	10,923	407
16	307,745	856,162	1,368,000	35,016	185,291	401,304	11,084	22,567	32,325	395
17	300,590	850,131	1,368,000	28,065	183,303	436,197	15,375	23,157	32,943	1,632
18	411,471	863,761	1,368,000	27,964	182,854	484,293	15,012	22,844	32,417	1,533
19	325,641	888,084	1,368,000	31,024	182,674	512,238	22,863	23,447	33,115	400
20	309,766	861,633	1,368,000	39,082	184,049	600,243	14,897	23,223	26,955	387
21	310,069	848,698	1,368,000	38,702	185,216	879,015	15,006	5,820	529	389
22	675,597	822,419	1,368,000	44,681	188,264	704,852	15,054	18,237	17,859	393
23	398,381	961,520	1,512,000	44,889	188,626	882,340	15,237	26,892	27,170	398
24	380,152	969,261	1,512,000	21,086	111,372	756,731	0	27,543	30,049	388
25	549,536	970,033	1,512,000	17,461	111,856	965,633	11,614	27,077	29,317	391
26	447,619	970,250	1,512,000	35,571	182,826	946,158	19,060	30,975	30,423	400
27	448,088	970,665	1,512,000	42,177	261,410	894,610	23,457	27,633	30,672	397
28	446,052	969,231	1,512,000	50,850	248,027	893,950	28,727	3,550	535	392
29	668,252	970,121	1,512,000	319,426	2,375,908	607,581	235,293	17,731	19,974	399
30	435,545	969,751	1,512,000	243,722	1,546,154	528,352	185,764	34,804	41,505	405
31	430,113	969,931	1,512,000	130,730	622,393	497,663	61,189	42,377	40,559	394
Total	12,706,398	27,554,219	43,647,000	1,470,017	8,606,384	15,031,963	753,314	627,595	757,475	17,143

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.